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Approved For Release 2003/08/01 : TOP SECRET P78T04759A010400010001-1

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25X1C

28 January 1974

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MEMORANDUM FOR:

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THROUGH :

SUBJECT :

Associated Communications at Space Tracking Facilities

REFERENCE :

NSA/V24/R-141-74
(NPIC Project 340004)

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1. This memorandum is in response to your request for identification of transmit and receive HF and microwave antennas at Kirzhach Space Tracking Facility [] and Talsi Space Tracking Facility []

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2. Two previously unreported types of communications antennas have been identified in the control support area for the conventional interferometers at Kirzhach. The first is TWIN PLATE, a transportable radio relay communication system. It consists of a pair of open mesh circular parabolic dishes on top of truck mounted lattice masts. At Kirzhach one of the antennas is mounted on a [] high mast and the second is mounted [] high mast. Both antennas are oriented on an azimuth of [] Soviet designator and frequency range are unknown.

3. The second type of communication system newly identified at Kirzhach is TWIN EAR. This troposcatter antennas system consists of a pair of open mesh parabolic dishes mounted on a cross beam. At Kirzhach the cross beam is mounted on a 110 ft [] high mast near the TWIN PLATE antennas. The operating frequency is approximately 4.7 GHz. The Soviet designator is not known. No other communication antennas were observed.

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4. The communications facilities at Talsi consist of TWIN PLATE and four previously reported dipole antennas. The TWIN PLATE antennas are mounted on [] high masts and have an orientation of []. The dipole antennas have the following characteristics:

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Antenna

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3
4

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There are no other communications antennas at this installation.

DECLASS REVIEW by NIMA/DOD

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CLASSIFIED BY: 009907
Exempt from General Declassification Schedule
of E.O. 11652, Exemption Category: 5B(2)
AUTOMATICALLY DECLASSIFIED ON
DATE []

WARNING NOTICE
Sensitive Intelligence Sources
and Methods Involved.

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5. Any questions regarding this project should be directed to
Missile Systems Branch, IDS code 143, extension

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Chief, Missiles and Space Division
NPIC

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